



Application Number

IDS Flag Clearance for Application 09942905

IDS Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2001-08-31	6	Y <input checked="" type="checkbox"/>	2001-10-22 04:59:26.0	EXPO-CONV
<input type="button" value="Update"/>					

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2103	number adj times! with search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:17
L2	215	1 and previous\$2 adj search\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:54
L3	691	1 and (search\$5 adj result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:18
L4	157	2 and (search\$5 adj result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:18
L5	122	4 and ("707"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:53
L6	1	5 and associative adj search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:53
L7	573	associative adj search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:53
L8	19	7 and previous\$2 adj search\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:54

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2103	number adj times! with search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:17
L2	215	1 and previous\$2 adj search\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:54
L3	691	1 and (search\$5 adj result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:18
L4	157	2 and (search\$5 adj result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:18
L5	122	4 and ("707"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 12:03
L6	1	5 and associative adj search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:53
L7	573	associative adj search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:53
L8	19	7 and previous\$2 adj search\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:54
L9	5	("5454105" or "6018733").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 12:04

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9473	(search\$6 or retriev\$6 or extract\$6) near9 (based adj5 result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 09:55
L2	166	1 and ("707"/\$.ccls. or "715"/\$.ccls.) and (document adj (database or (data adj base)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 09:58
L3	2169	("707"/\$.ccls. or "715"/\$.ccls.) and (document adj (database or (data adj base)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 09:54
L4	5	3 and (search\$6 or retriev\$6 or extract\$6) near12 (based adj5 (previous adj search))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 09:57
L5	65	(search\$6 or retriev\$6 or extract\$6) adj12 (based adj5 (previous\$2 adj search))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:26
L6	28	5 and ("707"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:45
L7	29	5 and document	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:24
L8	2081	(search\$3 adj7 document) same (search adj result)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:25
L9	1420	8 and ("707"/\$.ccls. or "715"/\$.ccls. or "704"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:25

EAST Search History

L10	90	9 and search\$6 with (previous\$2 adj2 ((search adj result) or result))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:40
L11	0	10 and (ibook or i-book)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:34
L12	57	(ibook or i-book)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:34
L13	30	10 and number adj times!	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:01
L14	99	(search adj result) adj9 (previous adj search\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:45
L15	103	(search adj result) adj9 (previous\$2 adj search\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:45
L16	65	15 and ("707"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:46
L17	60	16 and (document or (web adj page) or html or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 10:46
L18	5	17 and (number adj times!) with search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/17 11:01

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Associative search engine - Patent 6098065

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1 [World Wide Web: Using navigation data to improve IR functions in the context of web search](#)

 **Mark H. Hansen, Elizabeth Shriver**
 October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(2.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As part of the process of delivering content, devices like proxies and gateways log valuable information about the activities and navigation patterns of users on the Web. In this study, we consider how this navigation data can be used to improve Web search. A query posted to a search engine together with the set of pages accessed during a search task is known as a *search session*. We develop a mixture model for the observed set of search sessions, and propose variants of the classical EM a ...

Keywords: expectation-maximization algorithm, model-based clustering, proxy access logs, query clustering, web searching

2 [Distance browsing in spatial databases](#)

 **Gísli R. Hjaltason, Hanan Samet**
 June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(460.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We compare two different techniques for browsing through a collection of spatial objects stored in an R-tree spatial data structure on the basis of their distances from an arbitrary spatial query object. The conventional approach is one that makes use of a k-nearest neighbor algorithm where k is known prior to the invocation of the algorithm. Thus if m < k neighbors are needed, the k-nearest neighbor alg ...

Keywords: R-trees, distance browsing, hierarchical spatial data structures, nearest neighbors, ranking

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1 [World Wide Web: Using navigation data to improve IR functions in the context of web search](#)



Mark H. Hansen, Elizabeth Shriver

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(2.39 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As part of the process of delivering content, devices like proxies and gateways log valuable information about the activities and navigation patterns of users on the Web. In this study, we consider how this navigation data can be used to improve Web search. A query posted to a search engine together with the set of pages accessed during a search task is known as a *search session*. We develop a mixture model for the observed set of search sessions, and propose variants of the classical EM a ...

Keywords: expectation-maximization algorithm, model-based clustering, proxy access logs, query clustering, web searching

2 [IR-KM-1 \(information retrieval and knowledge management\): text mining: Dynamic extraction topic descriptors and discriminators: towards automatic context-based topic search](#)

Ana Maguitman, David Leake, Thomas Reichherzer, Filippo Menczer

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: [pdf\(253.70 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Effective knowledge management may require going beyond initial knowledge capture, to support decisions about how to extend previously-captured knowledge. Electronic *< i>concept maps, < /i>* interlinked with other concept maps and multimedia resources, can provide rich *< i>knowledge models< /i>* for human knowledge capture and sharing. This paper presents research on methods for supporting experts as they extend these knowledge models, by searching the Web for new context-relevant to ...

Keywords: acquisition tools, automatic topic search, concept mapping, context, information retrieval, knowledge, knowledge management

3 Document analysis 1: Semantic thumbnails: a novel method for summarizing document collections

 Arijit Sengupta, Mehmet Dalkilic, James Costello

October 2004 **Proceedings of the 22nd annual international conference on Design of communication: The engineering of quality documentation**

Publisher: ACM Press

Full text available:  pdf(197.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The concept of thumbnails is common in image representation. A thumbnail is a highly compressed version of an image that provides a small, yet complete visual representation to the human eye. We propose the adaptation of the concept of thumbnails to the domain of documents, whereby a thumbnail of any document can be generated from its semantic content, providing an adequate amount of information about the documents. However, unlike image thumbnails, document thumbnails are mainly for the cons ...

Keywords: document semantics, document summarization, semantic web, thumbnails

4 Shape-based retrieval and analysis of 3D models

 Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(12.56 MB) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

5 Server performance and scalability: A smart hill-climbing algorithm for application server configuration

 Bowei Xi, Zhen Liu, Mukund Raghavachari, Cathy H. Xia, Li Zhang

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(373.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The overwhelming success of the Web as a mechanism for facilitating information retrieval and for conducting business transactions has led to an increase in the deployment of complex enterprise applications. These applications typically run on Web Application Servers, which assume the burden of managing many tasks, such as concurrency, memory management, database access, etc., required by these applications. The performance of an Application Server depends heavily on appropriate configuration. Co ...

Keywords: automatic tuning, gradient method, importance sampling, simulated annealing, system configuration

6 Distributed IR: User modeling for full-text federated search in peer-to-peer networks

 Jie Lu, Jamie Callan

August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

User modeling for information retrieval has mostly been studied to improve the effectiveness of information access in centralized repositories. In this paper we explore user modeling in the context of full-text federated search in peer-to-peer networks. Our approach models a user's persistent, long-term interests based on past queries, and uses the model to improve search efficiency for future queries that represent interests similar to past queries. Our approach also enables queries representin ...

Keywords: federated search, peer-to-peer, query clustering, user modeling

7 [A digital libraries for education: Middle school children's use of the ARTEMIS digital library](#)



June Abbas, Cathleen Norris, Elliott Soloway

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: [pdf\(211.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A case study of middle school student's interaction within a digital library, the differential use of interface features by students, and the issues of representation and retrieval obstacles are examined. A mechanism for evaluating user's search terms and questions is explained. Findings of a current case study indicate that student's interaction with the system varied between individual classes and between different achievement levels. Terms used by the system to represent the resources do not ...

Keywords: children, information retrieval, information seeking, representation, scaffolds

8 [Robust interpretation of user requests for text retrieval in a multimodal environment](#)



Alexandra Klein, Estela Puig-Waldmüller, Harald Trost

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: [pdf\(45.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We describe a parser for robust and flexible interpretation of user utterances in a multimodal system for web search in newspaper databases. Users can speak or type, and they can navigate and follow links using mouse clicks. Spoken or written queries may combine search expressions with browser commands and search space restrictions. In interpreting input queries, the system has to be fault-tolerant to account for spontaneous speech phenomena as well as typing or speech recognition errors which o ...

9 [User studies: The loquacious user: a document-independent source of terms for query expansion](#)



Diane Kelly, Vijay Deepak Dollu, Xin Fu

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: [pdf\(262.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we investigate the effectiveness of a document-independent technique for eliciting feedback from users about their information problems. We propose that such a technique can be used to elicit terms from users for use in query expansion and as a follow-up when ambiguous queries are initially posed by users. We design a feedback form to obtain additional information from users, administer the form to users after initial

querying, and create a series of experimental runs based on the ...

Keywords: clarification form, elicitation, information need, polyrepresentation, problem description, query expansion, query length, user feedback

10 A study of the utility of associative memory processors

 James A. Dugan, Robert S. Green, Jack Minker, Warren E. Shindle
January 1966 **Proceedings of the 1966 21st national conference**

Publisher: ACM Press

Full text available:  [pdf \(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the past few years, considerable attention has been focused on the hardware aspects of both large and small associative memories and associative memory processors (AMP). 1,2,3,4,5,6,7,8,9,10 Additionally, very small associative memories have been included in computer systems for specific functions. 11,12 Several investigators 13,14,15 have reported on the effectiveness of AMPs for applications in which the data base was

s ...

11 Best Paper: Early experiences with a 3D model search engine

 Patrick Min, John A. Halderman, Michael Kazhdan, Thomas A. Funkhouser
March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Publisher: ACM Press

Full text available:  [pdf \(1.92 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New acquisition and modeling tools make it easier to create 3D models, and affordable and powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find 3D models as it is to find, for example, text documents and images. What is needed is a "3D model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

Keywords: 3D model database, shape matching, shape query interfaces, specialized search engine

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IEE CNF	IEE Conference Proceeding
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